UNIVERSITY BULLETIN

AND

ACADEMIC PROGRAM

OF THE

SZEGED UNIVERSITY MEDICAL SCHOOL

CURRICULUM FOR THE SCHOOLS OF MEDICINE AND PHARMACY

1986

UNIVERSITY BULLETIN

and

ACADEMIC PROGRAM

of the

Szeged University Medical School

Curriculum for the Schools of Medicine and Pharmacy

1986

The Cathedral on the Dóm Square

CONTENTS

CALL FOR APPLICATION

Dear Candidate for Admission.

Welcome to join the students and faculty at Szeged University Medical School!

Because...

... you can obtain degrees in Medicine or Pharmacy, and have the additional opportunity of taking part in postgraduate training. The degree will be internationally accepted and respected. The University is listed in the World Directory of Medical Schools published by the World Health Organization.

... Szeged University Medical School offers a friendly and cordial atmosphere in a pleasantly sized and located city which can contribute to close, permanent relationships between students and teaching staff.

... the University is located in the cultural, educational, shopping and business center of the city.

... the teaching staff is knowledgeable and well-grounded in the English language.

... we are experienced in the training of foreign medical students; hundreds of foreign students have graduated from our University in the past two decades.

We hope that this Academic Program will provide you with the proper answer to the questions you may have about Szeged University Medical School and that it will furnish you with insight into the advantages of attending medical school in Szeged.

The University Council

SZEGED: YESTERDAY AND TODAY

Situated on the banks of the River Tisza, Szeged is a city with deep historical and cultural roots. Even before the establishment of the Hungarian Kingdom in 1001 AD, Szeged was already an important center of trade, and by the year 1246 it was granted town status by King Béla IV. Even though economic and cultural development was nearly brought to a standstill by the Turkish occupation between 1526 and 1686, the city continued to grow and prosper while regaining its special Royal rights in 1719.

In the 19th century, the development of the city rapidly accelerated. Szeged played a prominent part in the War of Independence (1848–49) as it was the place of the famous recruiting speech of Lajos Kossuth, and was also the last seat of the Parliament of the Revolutionary Government in 1849.

Most of the city was destroyed in 1879, when the Tisza River overflowed its banks, and inundated the surrounding areas. The city was devastated; however, with the financial support and aid of a number of foreign countries the entire city was reconstructed. Thus its present layout of wide streets, incorporating a network of two rings with avenues crossing them gives the city its fairly modern and organized appearance.

For many centuries Szeged has been a center of trade and education. However, since World War II, its profile and role has changed dramatically. Now the city has become the center of Southern Hungary concentrating more on light and heavy industry. Exploration of oil and natural gas fields in the outskirts of Szeged has been developing rapidly. Since World War II, and especially since the 1960's, many new housing projects have been built, providing up-to-date standards of accomodation.

Szeged has two universities with a combined enrollment of 10.000 students. The Medical School consists of the Schools of

Medicine, Dentistry and Pharmacy. On the other hand, József Attila University consists of the Law School and the Schools for Arts and Sciences. The students at the universities are drawn from all parts of Hungary, and there are also students from many foreign countries.

Szeged, with a population of 200.000 is often nick-named the „City of Sunshine" and is situated on the Southern tip of the Great Hungarian Plain. It is well-known for its hot-sunny summers with temperatures averaging around 30°—35 °C, while the winters are usually mild with an occasional cold spell.

Szeged is on the crossroad of the highway E5 which begins in Oostende (Belgium) and continues to Istambul via Budapest and Belgrade. The nearest airport is in Budapest, from where Szeged can easily be reached by express train in $2^1/_2$ hours. A rent-a-car system also operates throughout Hungary; however, due to limited parking facilities, students are not encouraged to use cars in the premises of the University. Public transportation in the forms of streetcars, trolleybuses and autobuses are on a regular schedule between 5 a.m. and 11 p.m. for a nominal fare (2 Forints = 4 cents for a ride on streetcar). A student pass can be purchased for 52,— Ft ($1.00), which guarantees an unlimited amount of rides for a month.

Sports clubs of all kinds, for both full-time sportsmen and amateurs, art galleries, museums, live and movie theatres (including a large open-air theatre operating on Cathedral Square in the summer season), the Szeged Symphony Orchestra, choral societies, dancing clubs, discotheques etc. are at disposal for recreation — all within the financial possibilities of a University student. Students are especially encouraged to join sports clubs and cultural associations of the University.

THE SZEGED UNIVERSITY MEDICAL SCHOOL: A SHORT HISTORY

The University was originally established in Kolozsvár, Transylvania (currently Cluj/Napoca, Romania) in 1872; after the conclusion of World War I it had to be moved to Szeged, Between 1921 and the present, great advances have been made in the development of the University, especially the Medical School. Most of the university buildings were constructed between 1924 and 1930. Preclinical departments of the Medical School and the School of Sciences are arranged around Cathedral Square. The University Hospitals, housing the clinical departments, are in the area between the Cathedral and the Tisza River. Some of the preclinical departments as well as the Schools of Law and Arts were accomodated in other buildings; however, even off-campus departments of the Medical School (like Anatomy, Pathology and Forensic Medicine) are within easy access from the Center of the City (5 minutes by streetcar).

Many famous and world renowned professors have been on the faculty of the School of Medicine, including József Baló (pathologist), Béla Issekutz and Miklós Jancsó (pharmacologists), Dezső Miskolczy (neurologist), István Rusznyák and Géza Hetényi (internal medicine) as well as Albert Szent-Györgyi, professor of medical chemistry, who was awarded the Nobel Prize in 1937 for his scientific achievements in the field of biochemistry.

Among other notable scientific personalities contributing to the faculty of the University are: Prof. F. Földes, New York, USA, Prof. R. J. Gryglewski, Cracow, Poland, Prof. P. Janssen, Beerse, Belgium, Prof. L. G. Lajtha, Manchester, England, Prof. H. L. Sheehan, Liverpool, England, Prof. T. Symington, London, England, Prof. D. De Wied, Utrecht, The Netherlands.

In 1940, during the Second World War, the University was moved back again to Kolozsvár, while in Szeged, a new university, with mainly the former staff was legally established.

An important organizational change occurred in 1951, which separated the School of Medicine from the rest of the University. Since then it has been functioning as an independent University Medical School, under the supervision of the Ministry of Health. The Faculty of Pharmacy was founded in 1957.

Currently, Szeged University Medical School is the regional center of health care for all of Southern Hungary, offering widespread cooperation and collaboration with the surrounding hospitals and research institutes.

Students' Hostel,
Colonnade of the Preclinical Departments
and Medical Education Center
at the Dóm Square

INSTRUCTION

The objective of a good medical education is to provide the student with the requisite amount of basic factual knowledge and a willingness to continue his/her education as long as he/she remains active in medicine. Another goal of a sound medical and pharmaceutical education should be to gain the ability to evaluate in an objective manner the current trends and latest advances in medicine and pharmacy, and to acquire and nurture the attitudes and ideals that are implied in accepting the medical profession as a „way of life" rather than merely a way of earning and living. The student must come to realize the high ethical standards that are required in both his personal and professional conduct. The overall education of a physician should also allow him to assume efficiently the responsibilities associated with his position in the community and society.

Medicine is such a broad and extensive field that it is virtually impossible to learn in just six years everything that is required for the practice of medicine. The student is expected to acquire the fundamentals which will enable him/her, with further training, to enter any of the fields in general or specialty practice, research or education.

The Szeged University Medical School provides a curriculum leading to the degree of Doctor of Medicine or Doctor of Dental Medicine. This program begins with an introduction to the normal structure and function of the human body, and continues with a study of the effects of disease. The clinical portion of the program takes place in the wards of the clinical departments, in outpatient clinics and in teaching hospitals, where students learn under careful and guided supervision how to apply their scientific knowledge to the care of patients. — Another curriculum leads to the degree of Master of Sciences in pharmacy.

In Hungary, according to the principles of socialism, free health care is one of the human rights, to which every citizen of the country is entitled. While studying medicine in Hungary, each enrolled student, regardless of citizenship is entitled to this same right, and is expected to observe it while in contact with patients throughout his/her medical curriculum.

RESEARCH

Although the primary purpose of the Szeged University Medical School is teaching medical and pharmaceutical students the science and art of medicine, another equally important function is scientific research, which is aimed at disclosing the structure and function of the human body and the causes and treatment of disease. Scientific research in the Szeged University Medical School is supported mainly by the Hungarian Ministry of Health and by the Hungarian Academy of Sciences. Additional grants come from pharmaceutical factories and interdisciplinary projects.

Currently, more than 80 research projects are being conducted at the Medical School in virtually every area of the bio-medical sciences. Contributions made by Szeged University Medical School researchers to the growth of medical and pharmaceutical knowledge have been numerous and have received worldwide recognition. The main areas of scientific research conducted by the various departments of the Medical School are being listed in the Chapter describing organization and personnel of preclinical and clinical departments.

Students whose average grades are above a B+(4.0 on a 5.0 scale according to the Hungarian system of classification) are entitled to enter the scientific students' circles, which operate in each Department of the Medical School. Students choosing to enter this program pursue combined courses in medical or pharmaceutical and graduate studies and spend their free time in laboratories of the preclinical and clinical departments. This program provides an unparalleled opportunity to review and incorporate the basic concepts of science in relation to clinical medicine. It provides research experience and advanced basic science training for students expecting to enter medical research and education as a career and a superior scientific background for clinical medicine. Graduate students present their scientific results each year at the Congress of the Scientific Students' Circles.

ADMISSION REQUIREMENTS

High School Preparation. The applicant must have satisfactorily completed a four-year course of study in an accredited high school or its equivalent.

College Education. Since the curriculum at the Szeged University Medical School is comprised of not only clinical and preclinical courses, but also basic medical disciplines, college education is not a prerequisite for admission. However, if college preparation is available, it is advisable that the student planning to enter medical school should obtain a good general education and emphasize those areas in which he/she has the greatest personal interest. A student whose major undergraduate interest lies outside the biological or physical sciences should be adequately prepared in the fundamentals of chemistry, physics an biology.

Entrance Examination. There will be no Entrance Examination for the applicants but detailed proofs of their experience, education and past qualifications will be required by the Admission Board. Foreign applicants should exhibit an adequate proficiency in English language.

Fees and Expenses. Fees and deposits paid by foreign students at the Szeged University Medical School are as follows:

Regular Fees

Registration fee	$ 20,–
Tuition	$ 300,– per month*

There is no fee charged for credit hours or for using microscopes. There is no breakage deposit, or laboratory fees.

*Valid also for the period of hospital practice

Students are required to buy their own books, instruments for dissection (anatomy) as well as their phonendoscopes (internal Medicine) and reflex hammers (neurology). White coats ate supplied by the University.

Students are supposed to learn the basics of the Hungarian language during the first four terms in order to enable them to perform personal interviews with patients, beginning in the fifth term.

The cost of living in Hungary is comparatively inexpensive. A monthly $ 200,— should be sufficient for accomodation, board and other everyday expenses, including public transportation.

APPLICATION PROCEDURE

Applications must be received between March 1 and June 1. Application request cards may be obtained from the Office of the Dean, Szeged University Medical School (Zrínyi u. 9, H—6701 SZEGED, Hungary) or at the Hungarian Embassies in many Countries, after filling out the necessary information they should be sent to the Dean's Office.

Applicants are expected to present their credentials for evaluation to the Admission Board. Those who appear well qualified on the basis of the initial screening by the Board are required to submit reports of complete medical examinations by their own physicians.

Central Building
of the Universities of Szeged

THE MEDICAL CURRICULUM

The curriculum in medicine requires some basic knowledge in biology and physics (see „Admission requirements"), and consists of 6 years of basic medical, preclinical and clinical studies. The sequence of courses is as follows:

1. The first 2 years are devoted to basic medical sciences (Anatomy, Biochemistry, Biology, Chemistry, Embryology, Histology, Physics, Physiology).

2. The next 3 years are devoted to preclinical disciplines like Microbiology, Pathology, Pathophysiology, Psychology and Pharmacology, as well as to the various clinical sciences (Internal Medicine, Surgery, Dermatology, Pediatrics, Obstetrics and Gynecology, Neurology and Psychiatry, Ophthalmology, Radiology, Oto-rhino-laryngology, Urology, Anaesthesiology, pulmonology, Stomatology) joined by social medicine (Forensic Medicine, Public Health and Epidemiology, Health Service Organization, Medical Ethics) in the fifth year.

3. In the 6th year students must submit a written thesis. Moreover, they have to spend this time with practical work in teaching hospitals and/or clinical departments. After practical training, students take final examinations in Internal Medicine, Surgery, Pediatrics, Obstetrics and Gynecology, Neurology and Psychiatry. The course is concluded by the State Board Examination, which includes having the students prove their skills in physical examination and treatment of a patient in the interview situation. The sequence of courses for all 12 semesters can be seen in the following pages in greater detail.

1st semester (Fall Term)

Courses and Topics	Lectures and Practicals (No. of hrs per term*)	Examination**
ANATOMY	105	Semi-final
history of anatomy, general and electron microscopic cytology, gross anatomy and topographical anatomy of the extremities, skull osteology		
CHEMISTRY	112	Semi-final
physical chemistry, nature of the chemical bond, inorganic chemistry, organic chemistry		
PHYSICS	90	Practical mark
biometry, structure of atoms and molecules, thermodynamics		
COMPUTING TECHNIQUE	30	–
Fundamentals of Computing Technique, BASIC language; Computer in Medicine		

*Number of hours per week can be obtained by dividing this figure by 15

** Semi-final examination („colloquim") concludes a term; final examination („rigorosum", cumulative final) concludes two or more terms. „Practical mark" represents the result of continuous testing of practical knowledge.

	Lectures and Practicals (No. of hrs per term)	Examination
LATIN	15	Practical mark
HUNGARIAN LANGUAGE	90	Practical mark
SHORT HISTORY OF HUNGARY	15	–

2nd semester (Spring Term)

Courses and Topics

ANATOMY	135	Semi-final
gross and topographical anatomy of the trunk, the thoracic and abdominal cavities, anatomy and histology of cardiovascular, respiratory, digestive systems and those of blood and lymphatic organs		
CHEMISTRY	112	Final
chemistry of biologically active compounds, ion exchangers, chromatography, organic polymers		

	Lectures and Practicals (No. of hrs per term)	Examination
PHYSICS	45	Final
physical properties of the membranes electricity and bioelectricity, spectroscopy, physical basis of X-ray radiation, radioactivity and its measurement		
BIOLOGY	68	Practical mark
principles of biological organization, cell division, molecular genetics		
LATIN	15	Practical mark
HUNGARIAN LANGUAGE	90	Practical mark
SHORT HISTORY OF HUNGARY	15	–

3rd semester (Fall Term)

Courses and Topics

ANATOMY	105	Semi-final
anatomy and histology of the urogenital system, nervous system and endocrine organs, embryology I.		

	Lectures and Practicals (No. of hrs per term)	Examination
BIOLOGY	68	Final
human genetics		
BIOCHEMISTRY	102	Semi-final
basic enzymology, metabolism of lipids, proteins and nucleic acids, biochemistry of cellular organelles, biochemical regulatory mechanisms of the cell, systems biochemistry I.		
PHYSIOLOGY	150	Semi-final
membrane physiology, fundamental neurophysiology, systems physiology I.		
HUNGARIAN LANGUAGE	45	Practical mark
SHORT HISTORY OF HUNGARY	15	–

	Lectures and Practicals (No. of hrs per term)	Examination
4th semester (Spring Term)		
Courses and Topics		
ANATOMY	105	Final
anatomy and histology of sense organs, topographical anatomy of the head and neck, embryology II.		
BIOCHEMISTRY	105	Final
systems biochemistry II., immunological biochemistry		
PHYSIOLOGY	120	Final
systems physiology II.		
SOCIAL MEDICINE	30	—
the history of medicine, sciences and medicine, the structure of health services, the social environment of man, health and disease		
HUNGARIAN LANGUAGE	45	Final

	Lectures and Practicals (No. of hrs per term)	Examination
SHORT HISTORY OF HUNGARY	15	–
4 WEEKS' SUMMER PRACTICE OF NURSING IN HOSPITAL (36 HOURS PER WEEK)		

5th semester (Fall Term)

Courses and Topics

CLINICAL DIAGNOSTICS	75	Semi-final
anamnesis and physical diagnostics, instrumental diagnostics and patient evaluation		
MICROBIOLOGY	68	Semi-final
bacterial structure and physiology, microbial genetics, chemotherapy, biochemical and biophysical nature of viruses, mechanism of viral infections, descriptive bacteriology and virology		

	Lectures and Practicals (No. of hrs per term)	Examination
PATHOLOGY	135	Semi-final
general pathology (cellular injury, abnormal division and differentiation, disturbances in circulation, inflammation and neoplasia), pathology of autoimmune diseases, systems pathology I.		
PATHOPHYSIOLOGY	75	Semi-final
acid-base regulation and fluid electrolytes, pathophysiology of the immune system and inflammation, fever, systems pathophysiology I.		
SURGERY	60	Practical mark
asepsis, antisepsis, surgical infections, hemostasis, transfusion, basic neurosurgery		
OPERATIVE TECHNIQUES	7	Practical mark

	Lectures and Practicals (No. of hrs per term)	Examination
ETHICS IN MEDICINE	30	Semi-final
moral and legal responsibility of the physician, moral behaviour of the physician, humanistic aspects of medicine		

6th semester (Spring Term)

Courses and Topics		
INTERNAL MEDICINE	75	Practical mark
diseases of the heart and circulation, renal diseases		
MICROBIOLOGY	53	Final
descriptive virology, mycology and parasitology		
PATHOLOGY	75	Final
systems pathology II.		
PATHOPHYSIOLOGY	60	Final
systems pathophysiology II.		

	Lectures and Practicals (No. of hrs per term)	Examination
PHARMACOLOGY	75	Practical mark
principles of drug action and usage, drug metabolism, molecular pharmacology, neuropharmacology, cardiovascular pharmacology, clinical pharmacology I.		
SURGERY	60	Semi-final
traumatology		
OPERATIVE TECHNIQUES	7	Practical mark
CLINICAL CHEMISTRY	15	—
SOCIOLOGY	30	Semi-final
4 WEEKS' SUMMER PRACTICE OF INTERNAL MEDICINE (36 HOURS PER WEEK)		

	Lectures and Practicals (No. of hrs per term)	Examination
7th semester (Fall Term)		
Courses and Topics		
INTERNAL MEDICINE	60	Practical mark
diseases of the respiratory system and the digestive organs		
OBSTETRICS AND GYNECOLOGY	50	Semi-final
endocrine control of female fertility, pregnancy, labour, delivery and lactation, physiology and pathology of pregnancy, placental physiology and pathology		
SURGERY	40	Semi-final
vascular, chest surgery, gastroduodenal surgery		
PULMONOLOGY	30	Final
malformations of the lung, diseases of the pleura, lung tuberculosis, lung tumors, lung mycoses		

	Lectures and Practicals (No. of hrs per term)	Examination
DENTISTRY	30	Final
caries and dental prosthetics, orofacial inflammation and tumors, basic orofacial surgery, diseases of the salivary glands, radiographic diagnosis in the orofacial region		
RADIOLOGY	25	--
radiation biology, radiation hazard and protection, radiation therapy, diagnostic principles, radiographic technique, radiographic diagnosis I.		
PHARMACOLOGY	50	Final
clinical pharmacology II., toxicology		
NUCLEAR MEDICINE	10	—
PSYCHOLOGY	15	—
personality and illness, defense mechanism, patient-physician interactions, the role of personality of the physician		

	Lectures and Practicals (No. of hrs per term)	Examination
8th semester (Spring Term)		
Courses and Topics		
INTERNAL MEDICINE	148	Practical mark
autoimmune diseases, rheumatology, hematology, endocrinology		
OBSTETRICS AND GYNECOLOGY	50	Practical mark
diseases of the female reproductive organs, premarital and marital counseling, contraception, medical problems of sexuality		
SURGERY	44	Semi-final
abdominal surgery, proctology, peritonitis, surgery of the endocrine organs		

	Lectures and Practicals (No. of hrs per term)	Examination
OXYOLOGY, ANAESTHESIOLOGY AND INTENSIVE CARE	55	Semi-final
medical first aid, resuscitation, methods of anaesthesia, maintenance of body fluids and electrolytes, equilibrium during and after operation, postoperative care, shock, intensive care in toxicology, task and structure of the intensive care unit		
ORTHOPAEDICS	44	Final
screening and prevention of hip joint dysplasia, rehabilitation of spinal deformities, arthrosis, spondylosis, lumbar disc disease, acute and chronic inflammations of joint, bone tumors		
PSYCHOLOGY	48	Final

11 WEEKS' INTERIM PRACTICE:

4 weeks' Internal Medicine,
4 weeks' Surgery (including 1 week's Traumatology)
3 weeks' Obstetrics and Gynecology (36 hours per week)

	Lectures and Practicals (No. of hrs per term)	Examination
9th semester (Fall Term)		
Courses and Topics		
INTERNAL MEDICINE	40	Semi-final
metabolic diseases, infectious diseases		
INFECTIOUS DISEASES	10	–
Infectious diseases, tropical diseases		
SURGERY	30	–
cardiac surgery, neurosurgery		
DERMATOLOGY	60	Final
cutaneous infections, allergy and immunopathology of the skin, pathology and treatment of burn patients, cutaneous symptoms of internal diseases, venereal diseases		

	Lectures and Practicals (No. of hrs per term)	Examination
PEDIATRICS	60	Practical mark
neonatal, infant and child physiology and normal development, pediatric care and prevention, malnutrition, vitamin deficiencies, perinatology, pediatric infections		
NEUROLOGY AND PSYCHIATRY	50	Semi-final
muscle and peripheral nerve diseases, spinal cord diseases, cerebellar syndromes, Parkinsonism, epilepsies, cerebrospinal fluid pathology and diagnostics		
PUBLIC HEALTH AND EPIDEMIOLOGY	40	–
selected topics of epidemiology, hospital-associated infections, methods of sterilization in medical practice		
FORENSIC MEDICINE	40	–
law and medicine, forensic diagnosis of mechanical wounds, medicolegal investigations in practice		

	Lectures and Practicals (No. of hrs per term)	Examination
UROLOGY	30	Final
malformations, injuries, inflammations, tumors, renal failure and hemodialysis		
SOCIAL MEDICINE	20	Semi-final
statistical methods in medical practice, prevention and rehabilitation in medicine, structure of the Hungarian Health Service		
9 WEEKS' INTERIM PRACTICE:		
3 weeks' Internal Medicine, 3 weeks' Neurology and Psychiatry, 3 weeks' Pediatrics (36 hours per week)		

10th semester (Spring Term)

Courses and Topics		
INTERNAL MEDICINE	40	–
differential diagnosis in internal medicine		

	Lectures and Practicals (No. of hrs per term)	Examination
PEDIATRICS	50	–
pediatric cardiology, endocrinology, gastroenterology, neurology, oncology, pediatric surgery, methods of pediatric diagnosis, treatment and prevention		
NEUROLOGY AND PSYCHIATRY	60	–
tumors of the nervous system, brain edema, cerebrovascular disorders, infections and inflammations, multiple sclerosis, child neurology, psychiatry		
OPHTHALMOLOGY	60	Final
diseases of the eye, eyelids and lacrimal gland, ophthalmo-neurology		
OTO-RHINO-LARYNGOLOGY	50	Final
diseases of the nose, paranasal sinuses, ear and larynx, otoneurology		

	Lectures and Practicals (No. of hrs per term)	Examination
PUBLIC HEALTH AND EPIDEMIOLOGY	60	Final
environmental hygiene, environmental diseases, carcinogenesis, teratogenesis and mutagenesis, industrial hygiene		
FORENSIC MEDICINE	40	Final
assessment of criminal death and suicide, suspicious death, traffic accidents and medical practice, forensic sexology		
CLINICAL GENETICS	10	Semi-final
applied human genetics		

11th and 12th semesters

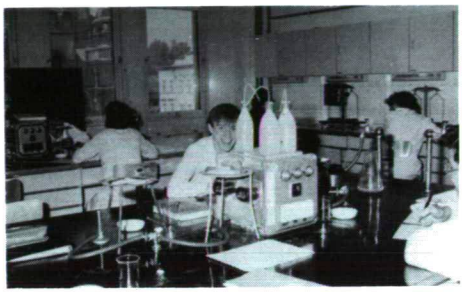
(6th year) Courses and Topics	Practicals (No. of weeks)	
INTERNAL MEDICINE[+]	12	Final
hospital practice		
SURGERY[++]	12	Final
hospital practice		
PEDIATRICS[+++]	8	Final
hospital practice		
NEUROLOGY AND PSYCHIATRY	8	Final
hospital practice		
OBSTETRICS AND GYNECOLOGY	4	Final
hospital practice		

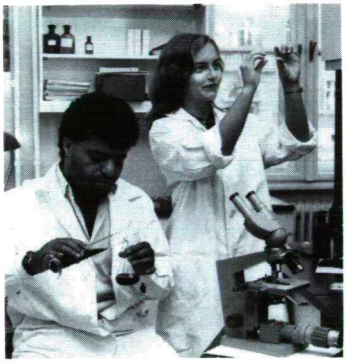
[+] (including 2 weeks' district consultation)

[++] (including 2 weeks' Traumatology and 2 weeks' ambulance service)

[+++] (including 1 week's district consultation)

Lecture and Seminar Rooms





Laboratories for Practical Lessons
and Surgical Operation

CURRICULUM IN PHARMACY

Attending the School of Pharmacy requires some basic knowledge in biology and physics (see „Admission Requirements"). The program consists of 4 and a half years of basic and special studies. The sequence of courses is arranged as follows:

1. The first 2 years are devoted to the basic sciences (Physics, Mathematics, General Chemistry, Inorganic and Organic Chemistry, Oualitative and Ouantitative Chemical Analysis, Physical Chemistry, Colloid Chemistry, Biochemistry, Botany, Biology, Normal and Pathological Physiology).

2. The 3rd and 4th years specifically stress the special pharmaceutical sciences: Pharmacognosy, Pharmaceutical Chemistry and Chemical Analysis, Pharmacodynamics and Toxicology, Microbiology, Pharmaceutical Technology, Public Health and Epidemiology, First-aid, Ethics, Social Pharmacy and Management (of Drug Matter).

After the 2nd and 3rd year, students have practical training in public pharmacy stores.

In the 9th semester, the students are engaged for 24 weeks in a practical training program performed in public and hospital pharmacy stores, and in the 9th semester students must submit a written thesis too. After the practical training period, students tahe examinations in the presence of the State Board, where they have to prove their skills in pharmaceutical sciences (both practical and theoretical).

Pharmaceutical diploma (licence) entitles the bearer to work in public and hospital pharmacy stores, laboratories, pharmaceutical works, drug research institutes, in the international trade of drugs, management of drug matter, etc.

A detailed account of the sequence of courses can be seen in the following pages.

	Lectures and Practicals (No. of hrs per term)	Examination
1st semester (Fall Term)		
Courses and Topics		
PHYSICS	30+30	–
basic phenomena and relations in physics, structure of atoms and molecules, radiations		
MATHEMATICS	30+45	Final
basic relations in mathematics, functions, differential and integral calculus, biometrics, calculators and computers		
GENERAL CHEMISTRY	45+90	Semi-final
basic phenomena and relations in chemistry, thermochemistry, electrochemistry, in practice: basic chemical operations		
BIOLOGY	30	–
principles of biological organization, cell biology, molecular genetics		

	Lectures and Practicals (No. of hrs per term)	Examination
2nd semester (Spring Term)		
Courses and Topics		
PHYSICS	30+45	Final
radiations, methods for the investigation of chemical structure, biophysics, electronics		
INORGANIC CHEMISTRY	60	Final
inorganic compounds, reactions in inorganic chemistry		
QUANTITATIVE CHEMICAL ANALYSIS	30+90	Semi-final
detection and identification of atoms, atomgroups, and ions		
BIOLOGY	15+45	Final
human genetics, health and disease		

	Lectures and Practicals (No. of hrs per term)	Examination
3rd semester (Fall Term)		
Courses and Topics		
QUANTITATIVE CHEMICAL ANALYSIS	30+75	–
basic relations in the chemical analysis, quantitative measurements of ions and compounds		
ORGANIC CHEMISTRY	60+60	Semi-final
general principles in organic chemistry, organic compounds, reactions and syntheses, biologically active substances		
PHYSICAL CHEMISTRY	45	Semi-final
basic principles in physical chemistry, reaction kinetics, thermodynamics, electrochemistry		
BOTANY	30+30	–
cytology and histology, plant organs, plant physiology and taxonomy		

	Lectures an Practicals (No. of hrs per term)	Examination
4th semester (Spring Term)		
Courses and Topics		
QUANTITATIVE CHEMICAL ANALYSIS	30+60	Final
(continued)		
ORGANIC CHEMISTRY	45+60	Final
(continued)		
PHYSICAL CHEMISTRY	75	Semi-final
(continued)		
BIOCHEMISTRY	15	Semi-final
basic phenomena in biochemistry, their application in pharmacy; systems biochemistry		
PHYSIOLOGY-PATHOLOGY	15+15	–
membrane physiology, basic phenomena in physiology; normal and pathological physiology of human organs		

	Lectures and Practicals (No.of hrs per term)	Examination
COLLOID CHEMISTRY	30+30	Semi-final
basic relations in colloid chemistry, its application in pharmaceutical technology		
BOTANY (continued)	30+30	Final

5th semester (Fall Term)

Courses and Topics

PHARMACOGNOSY	45+60	Semi-final
basic pharmacognosy, important medicinal plants, and their biologically active substances		
PHARMACEUTICAL CHEMISTRY	60+90	
basic pharmaceutical chemistry, chemistry and identification of drugs and biologically active substances used in human and veterinary therapy		

	Lectures and Practicals (No. of hrs per term)	Examination
PHARMACEUTICAL TECHNOLOGY	30	–
basic pharmaceutical technology, technological operations, apparatuses, machines and instruments, drug stability, dosage forms and formulation of drugs		
PHYSIOLOGY-PATHOLOGY-BIOCHEMISTRY	45+30	Semi-final
(continued)		
MICROBIOLOGY	45+30	Final
bacterial structure and physiology, microbial genetics, selected topics in bacteriology and virology		
SOCIOLOGY	15	Semi-final

	Lectures and Practicals (No. of hrs per term)	Examination
6th semester (Spring Term)		
Courses and Topics		
PHARMACOGNOSY	30+60	Final
(continued)		
PHARMACEUTICAL CHEMISTRY	45+90	Semi-final
(continued)		
PHARMACEUTICAL TECHNOLOGY	30+90	Semi-final
(continued)		
PHYSIOLOGY-PATHOLOGY-BIOCHEMISTRY	30+45	Final
(continued)		

	Lectures and Practicals (No. of hrs per term)	Examination
7th semester (Fall Term)		
Courses and Topics		
PHARMACEUTICAL TECHNOLOGY	30+135	–
(continued)		
PHARMACODYNAMICS AND TOXICOLOGY	45+45	Semi-final
general and special pharmacodynamics, toxicology, pharmacokinetics and applied biopharmaceutics		
PHARMACEUTICAL CHEMISTRY AND ANALYSIS OF DRUGS	45+75	Final
(continued)		
PUBLIC HEALTH AND EPIDEMIOLOGY	30	–
selected topics of epidemiology, infections, methods of sterilisation in pharmacy, environmental protection		

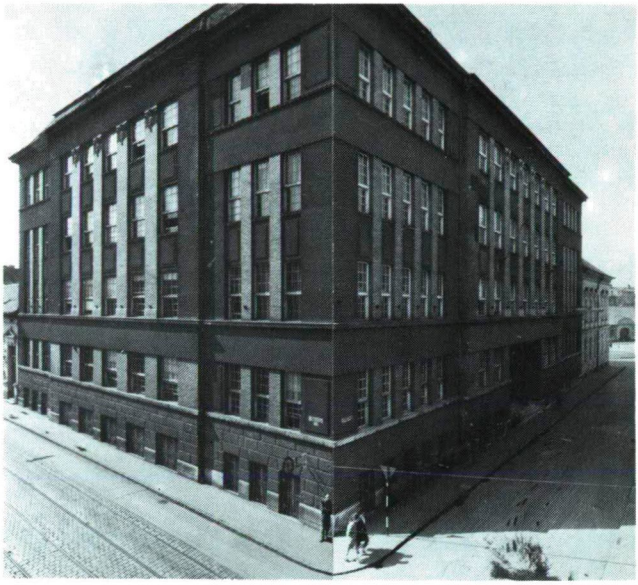
	Lectures and Practicals (No. of hrs per term)	Examination
FIRST AID	15	–
bases and practice of first-aid		
ETHICS IN PHARMACY	15+15	Semi-final
moral and legal responsibility of the pharmacists, public and human relations in the pharmaceutical praxis		

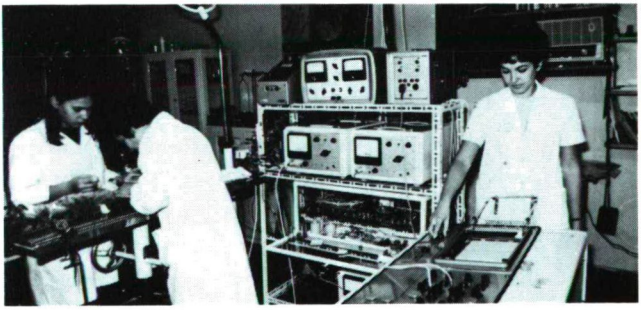
8th semester (Spring Term)

Courses and Topics		
PHARMACEUTICAL TECHNOLOGY	30+150	Final
(continued)		
PHARMACODYNAMICS AND TOXICOLOGY	45+60	Final
(continued)		
PUBLIC HEALTH AND EPIDEMIOLOGY	30+30	Final
(continued)		

	Lectures and Practicals (No. of hrs per term)	Examination
SOCIAL PHARMACY	45	Final
structure of the Hungarian Health Service, economy and management, application of laws in pharmaceutical praxis, statistical methods		

The Building of the Faculty of Pharmacy 12,3+2
and Animal Experiment in the Laboratory 14+1
of the Department of Pharmacodynamics 12,3+2





The Building of the Faculty of Pharmacy
and Animal Experiment in the Laboratory
of the Department of Pharmacodynamics

ORGANIZATION OF THE SZEGED UNIVERSITY MEDICAL SCHOOL
THE UNIVERSITY MANAGEMENT

Prof. István Cserháti, M. D., Ph. D., Sc. D.,
Rector Magnificus

Prof. Emil Minker, M. D., Ph. D.,
Vice Rector (General Affairs, Education)

Prof. Ferenc László, M. D., Ph. D., Sc. D.
Vice Rector (Scientific Research)

Prof. Vince Varró, M. D., Ph. D., Sc. D.
Vice Rector (Clinical Affairs)

ADMINISTRATION

Zoltán Vass, L. D.
Secretary General

PERSONNEL DEPARTMENT

Zoltán Orgovány, B. A., M. A.
Personnel Director

FINANCE, MANAGEMENT and MAINTENANCE

Lajos Szőcs, B. Econ, D. Econ
General Manager

Repair Shops
Central laundry
Thermal plant
Child care center
Nurses' dormitories

FACULTY OF GENERAL MEDICINE

(Including Dental School)
(School of General Medicine English class)

FACULTY MANAGEMENT
Prof. Gyula Telegdy, M. D., Ph. D., Sc. D.
Dean
Prof. Péter Kása, M. D., Ph. D., Sc. D.
Associate Dean
Prof. László Kovács, M. D., Ph. D.
Associate Dean

Dean's Office

András Lednitzky, L. D.
Head of Office

CENTRAL INSTITUTIONS AND LABORATORIES

Blood Transfusion Center
Central Isotope Diagnostics Laboratory
Central Laboratory for Clinical Chemistry
Central Laboratory for Clinical Microbiology

FACULTY OF PHARMACY

(School of Pharmacy English class)

FACULTY MANAGEMENT
Prof. Béla Selmeczi, Ph. D.
Dean
Mihály Kata, Ph. D., associate professor, Associate Dean

Dean's Office

Ildikó Jeremiás Pharmacist
Head of Office

Basic and Preclinical Departments
Dept. of Anatomy, Histology and Embryology
Dept. of Biochemistry
Dept. of Experimental Surgery
Dept. of Forensic Medicine
Dept. of Medical Biology
Dept. of Medical Chemistry
Dept. of Microbiology
Dept. of Pathology
Dept. of Pathophysiology
Dept. of Physiology
Dept. of Public Health and Epidemiology
Dept. of Social Medicine

Clinical Departments
Dept. of Dermatology
1st Dept. of Internal Medicine
Division of Endocrinology
2nd Dept. of Internal Medicine
Division of Intensive Care in Internal Medicine
Dept. of Neurology and Psychiatry
Dept. of Obstetrics and Gynecology
Dept. of Ophthalmology
Dept. of Oto-Rhino-Laryngology
Dept. of Pediatrics
Dept. of Radiology
Dept. of Stomatology
Dept. of Clinical Surgery
Division of Cardiac Surgery
Dept. of Neurological Surgery
Dept. of Anaesthesiology and Intensive Therapy
Dept. of Urology

Central Library
Central Pharmacy
Central Research Laboratory
Computing Center
Medical Education Center
Department of Foreign Languages
Department of Physical Training
Department of Sociology
Students' Dormitories

Pharmaceutical Departments
Dept. of Pharmaceutical Chemistry
Dept. of Pharmaceutical Technology
Dept. of Pharmacodynamics
Dept. of Pharmacognosy

Departments of József Attila University involved in training of medical (M) and/or pharmacy (P) students
Dept. of Botanics (P)
Dept. of Colloidal Chemistry (P)
Dept. of Experimental Physics (P)
Dept. of Biophysics (M)
Dept. of General and Physical Chemistry (P)
Dept. of Inorganic and Analytical Chemistry (P)
Dept. of Organic Chemistry (P)

DEPARTMENTS OF THE SZEGED UNIVERSITY MEDICAL SCHOOL

I. Central Institutions and Laboratories

Department of Sociology
Prof. Ferenc Bárány, Ph. D., Chairman of Department
Associate Professors: Dr. J. Pál, Dr. L. Szilágyi, Dr. L. Tóth
Assistant Professors: Dr. T. Balogh, Dr. Zs. Benkő, Dr. S. Besenyi, Dr. I. Kotogány, Dr. J. Papp, Dr. M. Révész, Dr. L. Tráser
Staff of 8 members
Teaching: 1st, 2nd, 3rd year medical, dental and pharmacy students
Research: Economical, ideological and political aspects of the social health service

Blood Transfusion Center
Prof. György Gál, M. D., Ph. D., Sc. D., Head of Laboratory
Associate Professor: Dr. G. Kaiser
Staff of 7 members
Research: Blood stabilizers; immune serology; immune reactivity in cancer and uremia

Central Laboratory for Clinical Chemistry
Prof. Béla Tanos, M. D., Ph. D., Sc. D., Head of Laboratory
Assistant Professor: Dr. A. Magyarlaki
Staff of 3 members
Teaching: 3rd year medical students

Central Laboratory for Clinical Microbiology
Prof. József Földes, M. D., Ph. D., Head of Laboratory
Assistant Professor: Dr. E. Nagy
Staff of 6 members

Research: Rapid Diagnostic methods in microbiology; antibiotics resistance

Central Isotope Diagnostics Laboratory
Prof. László Csernay, M. D., Ph. D., Sc. D., Head of Laboratory
Assistant Professor: Dr. M. Rajtár
Staff of 7 members
Teaching: 4th year medical students
Research: Isotope diagnosis of liver and bile duct; computeraided analysis of scintigrams

Central Research Laboratory
Prof. Péter Kása, M. D., Ph. D., Sc. D., Head of Laboratory
Research Associate: Dr. Z. Rakonczay
Staff of 6 members
Research: Bioregulation in acetylcholine-mediated systems; identification of cholinergic neurons. Instruments and equipment of the Laboratory are at the disposal of researchers in any other Department of the University Medical School.

Medical Education Center
Tamás Örs Zoltán, Ph. D., Associate professor, Head of Department
Staff of 8 members

Computing Center
István Győri, Ph. D., associate professor, Head Mathematician
Staff of 15 members
Research: Mathematical modelling of biological systems; compartmentalization; biometrics; symbol analysis; information systems
Teaching: 1st year medical students

Department of Foreign Languages
Miklós Aszriev, M. A., Head Master
Staff: 13 Language teachers
Teaching: 1st, 2nd year medical and pharmacy students

Department of Physical Education
László Boros Gyevi, M. Sc., Head Educator
Staff: 6 teachers of physical education
Teaching: 1st, 2nd year medical and pharmacy students

Central Library
Dr. Andor Zallár, B. A., B. Libr., Library Director
Staff: 6 librarians

Central Pharmacy of the University
Géza Mezey, Ph. D., Associate professor, Head Pharmacist
Research: Applied pharmaceutical technology; clinical pharmaceutics; pharmaceutical organization

Directorate of Students' Dormitories
Dr. Károly Bella, M. A., Director
Staff: 4 educators

II. Preclinical Departments

Department of Anatomy, Histology and Embryology
Prof. Bertalan Csillik, M. D., Ph. D., Sc. D., Chairman of Department
Associate Professor: Dr. L. Tóth
Research Associate: Dr. E. Knyihár
Assistant Professors: Dr. E. Király, Dr. A. Mihály, Dr. M. Poberai
Staff of 14 members
Teaching: 1st and 2nd year medical students
Research: Molecular anatomy of impulse transmission; cytochemistry and electronmicroscopy of pain centers; regeneration and regulation in the central nervous system

Department of Biochemistry
Prof. Ferenc Guba, Ph. D., Sc. D., Chairman of Department
Research Associate: Dr. A. Török
Assistant Professors: Dr. H. Mazareán, Dr. Ö. Takács
Staff of 8 members
Teaching: 2nd year medical and pharmacy students
Research: Biochemical basis of motility; protein metabolism and differentiation of muscles: chemistry, function and electron miscroscopy

Department of Experimental Surgery
Prof. Sándor Nagy, M. D., Ph. D., Chairman of Department
Associate Professors: Dr. T. Kováts, Dr. L. Laczkovits, Dr. P. Végh
Staff of 11 members
Teaching: 3rd year medical students
Research: Role of autonomic nervous system in ileus; neurohormonal reactions and resistance against the shock; tumor and transplantation immunology

Department of Forensic Medicine
Prof. Vilmos Földes, M. D., Ph. D., Chairman of Department
Associate Professor: Dr. F. Kósa
Assistant Professors: Dr. E. Virágos-Kis, Dr. J. Szendrényi
Staff of 8 members
Teaching: 5th year medical students
Research: Age-dependent alterations of the skeleton; diagnosis of injuries; genetical identification of parentage

Department of Social Medicine
Prof. Sámuel Zalányi, M. D., Ph. D., Chairman of Department
Assistant Professor: Dr. É. Pető
Staff of 6 members
Teaching: 2nd and 5th year medical students; 4th year pharmacy students
Research: Morbidity studies in wards and in outpatient clinics; ac-

cident prevention; working conditions of health service personnel; organization of pharmacies

Department of Medical Biology
Prof. János Molnár, M. D., Ph. D., Sc. D., Chairman of Department
Professor: Gy. Szemere M. D., Ph. D.
Assistant Professors: Dr. I. Berek, Dr. E. Husztik, Dr. J. Nyilasy, Dr. K. Vámos
Staff of 5 members
Teaching: 1st and 2nd year medical and pharmacy students
Research: Structure and function of nuclear pre-messenger RNS; human genetics and chromosome examinations; mutagenic effects of industrial waste material

Department of Medical Chemistry
Prof. Kálmán Kovács, Ph. D., Sc. D., Chairman of Department
Associate Professors: Dr. L. Baláspiri, Dr. B. Penke
Assistant Professors: Dr. A. Török, Dr. M. Zarándy
Staff of 5 members
Teaching: 1st year medical students
Research: Synthesis of peptide hormones; mechanism of action of neurotransmitters and neurohormones; computer simulation of self-regulating biological systems

Department of Microbiology
Prof. Ilona Béládi, M. D., Ph. D., Sc. D., Chairman of Department
Associate Professors: Dr. J. Molnár, Dr. R. Pusztai, Dr. I. Rosztóczy
Research Associate: Dr. I. Mécs
Assistant Professors: Dr. K. Berencsi, Dr. Y. Mándy, Dr. I. Mucsi, Dr. B. Prágai
Staff of 5 members
Teaching: 3rd year medical students
Research: Interferon indication by adenoviruses; modulating and oncolytic properties of interferons; oncogenetic and immunosuppressive properties of adenoviruses; antiviral substances

Department of Pathology
Prof. Jenő Ormos, M. D., Ph. D., Sc. D., Chairman of Department
Professor: D. Bara, M. D., Ph. D.
Associate Professor: Dr. M. Tószegi
Research Associate: Dr. E. Kuthy
Assistant Professor: Dr. A. Mágory
Staff of 16 members
Teaching: 3rd year medical students
Research: Human pathology and experimental alterations of the neuroendocrine and the cardiovascular system. Cytochemistry and electron microscopy of experimental renal lesion

Department of Pathophysiology
Prof. Gyula Telegdy, M. D., Ph. D., Sc. D., Chairman of Department
Professor: Gy. Lázár, M. D., Ph. D., Sc. D.
Associate Professor: Dr. A. Gecse, Dr. G. Kovács
Assistant Professor: Dr. A. Ottlecz
Staff of 5 members
Teaching: 3rd year medical students
Research: Correlations between steroid and peptide hormones; neurotransmitters and prostaglandis; modulation of neurotransmitters by peptide hormones; effect or rare earth elements on the function of the reticulo-endothelial system

Department of Pharmacology
Prof. László Szekeres, M. D., Ph. D., Sc. D., Chairman of Department
Professor: Gy. Papp, M. D., Ph. D., Sc. D.
Associate Professors: Dr. M. Koltai, Dr. I. Takáts
Staff of 9 members
Teaching: 3rd and 4th year medical students
Research: Pathomechanism of cardiac arrythmias; action of antiarrythmic drugs; function of coronary blood vessels and the action of antianginal drugs

Department of Physiology
Prof. Ferenc Obál, M. D., Ph. D., Sc. D., Chairman of Department
Associate Professor: Dr. Gy. Benedek
Assistant Professors: Dr. G. Jancsó, Dr. F. Obál jun., Dr. Gy. Such, Dr. M. Szikszai
Staff of 6 members
Teaching: 2nd year medical and pharmacy students
Research: Thermoregulation; regulation of sleep-wake cycles; mechanism of neurogenic inflammation. Electro-encephalography

Department of Public Health and Epidemiology
Prof. Illés Dési, M. D., Ph. D., Sc. D., Chairman of Department
Research Associate: Dr. L. Nagymajtényi
Assistant Professors: Dr. K. Barabás, Dr. M. Nehéz, Dr. G. Selypes, Dr. G. Vetró
Staff of 8 members
Teaching: 5th year medical students; 4th year pharmacy students
Research: Toxicology and hygienics of chemicals used in industry and in agriculture.

III. Clinical Departments

Department of Dermatology
Prof. Miklós Simon, M. D., Ph. D., Sc. D., Chairman of Department
Associate Professors: Dr. A. Dobozy, Dr. S. Husz, Dr. É. Szabó, Dr. L. Szekeres
Assistant Professors: Dr. K. Berténvi, Dr. J. Hunyadi, Dr. I. Korom, Dr. F. Kószó
Staff of 12 members
Teaching: 5th year medical students
Research: Clinical immunology; porphyrinopathies; oncology of melanomes; restorative plastic surgery

1st Department of Internal Medicine

Prof. Vince Varró, M. D., Ph. D., Sc. D., Chairman of Department

Associate Professors: Dr. G. Bálint, Dr. S. Sonkodi, Dr. T. Várkonyi

Assistant Professors: Dr. M. Hódi, Dr. G. Karácsony, Dr. Z. Kiss, Dr. J. Lonovics, Dr. F. Nagy, Dr. J. Náfrádi, Dr. A. Pap, Dr. Gy. Pokorny

Staff of 16 members

Teaching: 3rd, 4th and 5th year medical students

Research: Experimental and clinical gastroenterology, clinical pharmacology; diabetology; nephrology; autoimmune diseases

Division of Endocrinology

Prof. Ferenc László, M. D., Ph. D., Sc. D., Head of Division

Professor: I. Faredin, Ph. D., Sc. D.

Associate Professor: Dr. J. Julesz

Research Associate: Dr. I. Tóth

Assistant Professors: Dr. F. Laczi

Staff of 5 members

Teaching: 3rd, 4th and 5th year medical students

Research: Theoretical and clinical endocrinology of the hypothalamohypophyseal system

2nd Department of Internal Medicine

Prof. István Cserháti, M. D., Ph. D., Sc. D., Chairman of Department

Professor: M. Tényi, M. D., Ph. D.

Associate Professors: Dr. M. Csanády, Dr. F. Krizsa

Assistant Professors: Dr. E. Balogh, Dr. M. Hőgye, Dr. M. Maurer, Dr. I. Soós, Dr. Gy. Varga

Staff of 15 members

Teaching: 3rd, 4th and 5th year medical students

Research: Hematology and cardiology

Division of Intensive Care in Internal Medicine

István Sági, M. D., Ph. D., Associate Professor, Head of Division

Staff of 5 members

Teaching: 3rd, 4th and 5th year medical students

Department of Neurology and Psychiatry

Prof. János Szilárd, M. D., Ph. D., Chairman of Department

Professors: J. Domonkos, Ph. D., L. Heiner, M. D., Ph. D., M. Vargha, M. D., Ph. D.

Associate Professors: Dr. I. Somogyi, Dr. Z. Pető, Dr. I. Szentistványi

Assistant Professors: Dr. T. Járdánházi, Dr. B. Temesváry, Dr. G. Vetró, Dr. Z. Janka

Staff of 29 members

Teaching: 5th year medical students

Research: Transport phenomena in neural membranes; biochemistry of neuromuscular diseases. Emotional affective disorders: biology, social psychology, psychopathology

Department of Obstetrics and Gynecology

Prof. Mihály Sas, M. D., Ph. D., Sc. D., Chairman of Department

Professor: L. Kovács, M. D., Ph. D.

Associate Professors: Dr. J. Gellén, Dr. J. Morvay, Dr. B. Resch

Research Associate: Dr. Gy. Falkay

Assistant Professors: Dr. J. Annus, Dr. F. Apró, Dr. Gy. Bártfai, Dr. Gy. Godó, Dr. J. Herczeg, Dr. L. Kincses, Dr. E. Szabó, Dr. Szőllősy, Dr. L. Thurzó, Dr. I. Veress

Staff of 21 members

Teaching: 4th year medical students

Research: Endocrinology; perinatology; intrauterine Physiology; regulation of human reproduction; positive and negative family planning

Department of Stomatology
Prof. Albert Mari, M. D., Ph. D., Chairman of Department
Associate Professors: Dr. A. Kovács, Dr. G. Prágai, Dr. I. Sokondi, Dr. A. Fazekas
Assistant Professors: Dr. I. Gorzó, Dr. J. Méray, Dr. S. Pónyi, Dr. A. Szentpéteri
Staff of 21 members
Teaching: 4th year medical students
Research: Epidemiology and prevention of caries by fluoridation, cryotherapy of oral precanceroses; rehabilitation of patients after maxillo-facial surgeries

Department of Ophthalmology (Eye Diseases)
Prof. Ildikó Süveges, M. D., Ph. D., Sc. D., Chairman of Department
Associate Professors: Dr. J. Polgár, Dr. H. Hammer
Assistant Professors: Dr. I. Pápai, Dr. M. Szabó, Dr. L. Szalay, Dr. P. Sziklai
Staff of 16 members
Teaching: 5th year medical students
Research: Role of eye and pineal gland in neuroendocrine regulation; immunological background of eye diseases

Department of Oto-Rhino-Laryngology (Ear-Nose-Throat Diseases)
Prof. Jenő Czigner, M. D., Ph. D., Chairman of Department
Assistant Professors: Dr. J. Jóri, Dr. E. Nagymajtényi, Dr. Gy. Stanzel, Dr. I. Tomity
Staff of 11 members
Teaching: 5th year medical students
Research: Experimental and clinical studies on audiological rehabilitations; clinical pharmacology (cochlear and vestibular side effects of drugs); tumors and allergic diseases in oto-rhino-laryngology

Department of Pediatrics

Prof. Domokos Boda, M. D., Ph. D., Sc. D., Chairman of Department

Associate Professors: Dr. I. Altorjay, Dr. K. Füzesi, Dr. A. László, Dr. I. Virág

Research Associates: Dr. E. Eck, Dr. K. Gyurkovics, Dr. I. Németh

Assistant Professors: Dr. P. Hencz, Dr. M. Illyés, Dr. E. Kertész, Dr. J. Soltysiak, Dr. M. Szabó, Dr. P. Tekulics, Dr. S. Tury, Dr. Á. Várkonyi, Dr. L. Sztriha, Dr. P. Szüts

Staff of 30 members

Teaching: 5th year medical students

Research: Pathology of premature infants; congenital heart failure; respiratory metabolic and hematologic disorders; pediatric immunology; clinical pharmacology

Department of Radiology

Prof. Vincze Varró, M. D., Ph. D., Sc. D., acting Chairman of Department

Associate Professors: Dr. L. Fráter, Dr. J. Kocsis

Assistant Professors: Dr. E. Csepregy, Dr. J. Beviz, Dr. J. Ökrös, Dr. L. Perényi, Dr. L. Pokorny

Staff of 19 members

Teaching: 4th year medical students

Research: Angiography of blood and lymph vessels; functional X-ray diagnostics of lung and intestines in infants; thermography; complex tumor therapy; dosimetry in supervolt therapy; computer technique in oncoradiology

Department of Clinical Surgery

Prof. Sándor Karácsonyi, M. D., Ph. D., Chaitman of Department

Professor: Gy. Gál, M. D., Ph. D., Sc. D.

Associate Professors: Dr. A. Németh, Dr. B. Baltás

Assistant Professors: Dr. E. Csajbók, Dr. Gy. Farkas, Dr. P. Horváth, Örs, Dr. Gy. Letoha, Dr. A. Nagy, Dr. J. Pepó, Dr. A. Petri, Dr. I. Iroján

Staff of 21 members
Teaching: 3rd, 4th and 5th year medical students
Research: Transplantation; hemodynamics; uremia; ileus; surgical therapy of gastric ulcer; tumors of esophagus, stomach and colon; surgery of arterial occlusion

Department of Anaesthesiology and Intensive Therapy
Prof. Mihály Boros, M. D., Ph. D., Sc. D., Chairman of Department
Assistant Professors: Dr. L. Prefort, Dr. J. Szenohradszky, Dr. G. Zentay
Staff of 21 members
Teaching: 4th year medical students
Research: Clinical pharmacology and pharmacodynamics of muscle relaxants

Division of Cardiac Surgery
Prof. Gábor Kovács, M. D., Ph. D., Head of Division
Professor: G. Felka, Ph. D.
Assistant Professors: Dr. S. Fazekas, Dr. T. Gaál, Dr. Gy. Vajtai
Staff of 7 members
Teaching: 5th year medical students
Research: Heterograft replacement of cardiac valves; intracoronary thrombolysis in the treatment of acute myocardial infarction

Department of Neurological Surgery
Prof. Mihály Bodosi, M. D., Ph. D., Chairman of Department
Associate Professor: Dr. Z. Czipott
Assistant Professors: Dr. G. Dósa, Dr. T. Dóczi, Dr. E. Huszka, Dr. L. Sándor
Staff of 12 members
Teaching: 3rd, 4th and 5th year medical students
Research: Tumors of brain and spinal cord; reanimation after brain injuries; microsurgery and prosthetics

Department of Urology
Prof. Sándor Scultéty, M. D., Ph. D., Chairman of Department
Assistant Professors: Dr. A. Kiss, Dr. J. Oszlánczy, Dr. B. Varga
Staff of 5 members
Teaching: 5th years medical students.

IV. Departments of the School of Pharmacy

Department of Pharmaceutical Chemistry
Prof. Gábor Bernáth, Ph. D., Sc. D., Chairman of Department
Associate Professors: Dr. F. Klivényi, Dr. L. Simon, Dr. G. Stájer, Dr. J. Szabó
Assistant Professors: Dr. J. Lázár, Dr. Gy. Dombi, Dr. F. Fülöp, Dr. E. Szabó
Staff of 5 members
Teaching: 3rd and 4th year pharmacy students
Research: Synthesis and stereochemistry of heterocyclic compounds

Department of Pharmaceutical Technology
Prof. Béla Selmeczi, Ph. D., Chairman of Department
Associate Professors: Dr. I. Erős, Dr. M. Kata, Dr. G. Regdon
Assistant Professors: Dr. K. Dódy, Dr. É. Kiss, Dr. E. Hunyadváry, Dr. M. Wayer
Staff of 4 members
Teaching: 3rd and 4th year pharmacy students
Research: Colloidal properties and release of active factors from pharmaceutical preparations. Optimalization in pharmaceutical technology

Department of Pharmacodynamics
Prof. Emil Minker, M. D., Ph. D., Chairman of Department
Professor: M. Gábor, Ph. D., Sc. D.
Assistant Professors: Dr. J. Iván, Dr. J. Sallai

Staff of 3 members
Teaching: 4th year pharmacy students
Research: Mechanism of action of cholinesterase inhibitors; pharmacology of flavonoids; chemotherapy of pyelonephritis

Department of Pharmacognosy
Prof. Kálmán Szendrei, Ph. D., Chairman of Department
Associate Professors: Dr. Zs. Rózsa, Dr. L. Tóth
Assistant Professors: Dr. M. Gellért, Dr. V. Pápay, Dr. E. Varga
Staff of 2 members
Teaching: 3rd year pharmacy students
Research: Screening, chemical identification and structural analysis of the active ingradients in herbs and plants used in folk medicine.

TEACHING HOSPITALS OF SZEGED MEDICAL SCHOOL

Szeged County-Municipal Hospital and Outpatient Institute,
Szeged
Bács-Kiskun County Hospital and Outpatient Institute,
Kecskemét
Békés County Hospital and Outpatient Institute,
Gyula
Szolnok County Hospital and Outpatient Institute,
Szolnok
Szeged County-Municipal Children's Hospital and Outpatient
Institute, Szeged
Csongrád County Hospital for Rehabilitation of Pulmonary
Diseases, Deszk
Békéscsaba United Municipal Health Institute,
Békéscsaba
Hódmezővásárhely Municipal Hospital and Outpatient Institute,
Hódmezővásárhely
Szentes Municipal Hospital and Outpatient Institute,
Szentes
Makó Municipal Hospital and Outpatient Institute,
Makó
Kiskunhalas Municipal Hospital and Outpatient Institute,
Kiskunhalas
Kiskunfélegyháza Municipal Hospital and Outpatient Institute,
Kiskunfélegyháza
Baja Municipal Hospital and Outpatient Institute,
Baja

APPLICATION FORM[+]

1. Last name (family name): . . . . . .
2. First name: . . . . . (middle initial)
3. Male or female: . . . . . .
4. Place of birth; year, month, day: . . . . . .
5. Mother's maiden name: . . . . . .
6. Nationality: . . . . . .
7. Premedical education:
   High school: . . . . . .
   years: 19. . .—19. . .
   graduation: 19. . .
   College: . . . . . .
   years: 19. . .—19. . .
   graduation: 19. . .
8. Proficiency in English language: reading, speaking, writing
9. Home address: . . . . . .
   Present address: . . . . . .
10. Number of passport: . . . . . .
    Herewith I am submitting application for enrollment in the School of ☐ Medicine ☐ Pharmacy

Date: . . . . . .

. . . . . .
signature

[+] Use block letters or a typewriter. Application Forms are also available from the Dean's Office (Zrínyi u. 9; H–6701 Szeged, Hungary) or the Hungarian Embassies in many countries.

For enclosures see overleaf.

To be enclosed (or subsequently submitted):

1. Photocopy of certificates of highest qualification (School, College or University Record) and proficiency in English language.

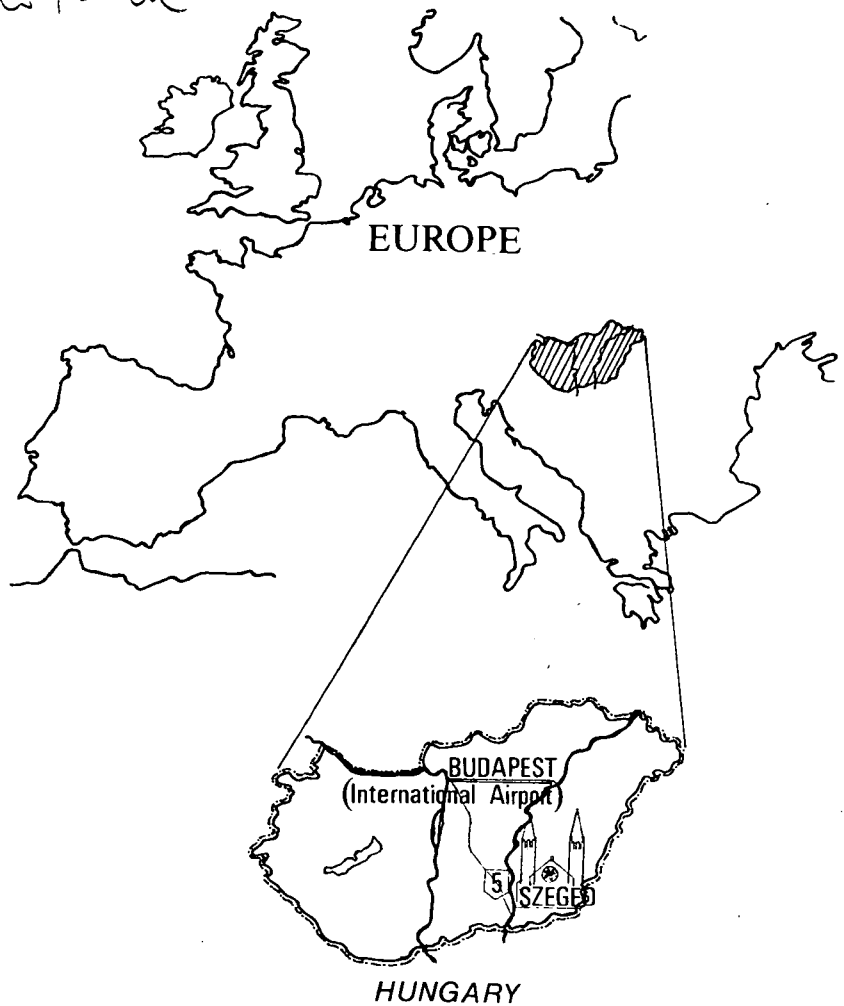
2. Handwritten curriculum vitae.

3. One photo.

4. Letters of recommendation.

5. $ 20 check or money order, payable to „Szegedi Orvostudományi Egyetem" as a registration fee.

Mail envelope by AIR MAIL from Post Office (Insufficient postage could cause weeks of delay).



Responsible for publication: Rector of the University